



Patent  
Attorney's Docket No. P12547-US1-BMOA



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

UTILITY PATENT  
APPLICATION TRANSMITTAL LETTER

Box PATENT APPLICATION  
Commissioner for Patents and Trademarks  
Washington, D.C. 20231

Sir:

Enclosed for filing is the utility patent application of Hans CARLSSON, John DIACHINA, and Christofer FLINTA for SYSTEMS AND METHODS FOR IMPROVING POSITIONING IN A COMMUNICATIONS NETWORK.

Also enclosed are:

- ☒ 10 sheet(s) of ☒ formal ☐ informal drawing(s);
- ☐ claim for foreign priority under 35 U.S.C. §§ 119 and/or 365 is ☐ hereby made to  
\_ filed in \_ on \_;  
☐ in the declaration;
- ☐ a certified copy of the priority document;
- ☐ a General Authorization for Petitions for Extensions of Time and Payment of Fees;
- ☐ applicant(s) is/are entitled to Small Entity Status;
- ☒ an Assignment document and Assignment Recordation Cover Sheet;
- ☒ an Information Disclosure Statement and PTO-1449; and 2 references;
- ☐ Other: \_;
- ☒ An ☒ executed ☐ unexecuted declaration of the inventor(s)  
☒ also is enclosed ☐ will follow.
- ☐ Please amend the specification by inserting before the first line the sentence -- This application claims priority under 35 U.S.C. §§ 119 and/or 365 to \_ filed in \_ on \_; the entire content of which is hereby incorporated by reference.--
- ☐ A bibliographic data entry sheet is enclosed.

☒ The filing fee has been calculated as follows ☐ and in accordance with the enclosed preliminary amendment:

CLAIMS					
	No. of Claims		Extra Claims	Rate	Fee
Basic Application Fee					\$710.00
Total Claims	31	Minus 20 =	11	x \$18.00 =	198.00
Ind. Claims	6	Minus 3 =	3	x \$ 80.00 =	240.00
If multiple dependent claims are presented, add \$270.00					
Total Application Fee					1,148.00
If Small entity status is claimed, subtract 50% of Total Application Fee					
Add Assignment Recording Fee if Assignment document is enclosed					40.00
<b>TOTAL APPLICATION FEE DUE</b>					<b>1,188.00</b>

☐ This application is being filed without a filing fee. Issuance of a Notice to File Missing Parts of Application is respectfully requested.

☒ A check in the amount of \$1,148.00 (Application filing fee and claim fee) is enclosed for the fee due.

☒ A check in the amount of \$40.00 (Assignment Recordation fee) is enclosed for the fee due.

☐ Charge \$\_ to Deposit Account No. 50-1070 for the fee due.



By:

Reg. No. 43,367

Date: December 8, 2000

Parameter	Value	Unit
Initial concentration of $\text{H}_2\text{O}_2$	0.01	M
Initial concentration of $\text{Fe}^{2+}$	0.001	M
Initial concentration of $\text{H}^+$	0.1	M
Temperature	25	$^\circ\text{C}$
Reaction time	0 to 100	min
Reaction rate constant $k$	0.001	$\text{min}^{-1}$
Reaction order with respect to $\text{H}_2\text{O}_2$	1	
Reaction order with respect to $\text{Fe}^{2+}$	1	
Reaction order with respect to $\text{H}^+$	1	
Overall reaction order	3	
Half-life $t_{1/2}$	100	min
Activation energy $E_a$	50	kJ/mol
Pre-exponential factor $A$	1000	$\text{min}^{-1}$
Rate of reaction at $t = 0$	0.001	$\text{M min}^{-1}$
Rate of reaction at $t = 100$	0.0005	$\text{M min}^{-1}$
Concentration of $\text{H}_2\text{O}_2$ at $t = 0$	0.01	M
Concentration of $\text{H}_2\text{O}_2$ at $t = 100$	0.005	M
Concentration of $\text{Fe}^{2+}$ at $t = 0$	0.001	M
Concentration of $\text{Fe}^{2+}$ at $t = 100$	0.0005	M
Concentration of $\text{H}^+$ at $t = 0$	0.1	M
Concentration of $\text{H}^+$ at $t = 100$	0.1	M